DEVICE AND METHOD FOR BANDWIDTH OPTIMIZATION USING A LOCAL CACHE

ABSTRACT:

A device 60 for time-shifting a first signal set with respect to a second signal set, as compared to the time sequence in which they were received, includes a receiver 44B, 46B, a storage means 44C, 46C, 70, a central processing unit 66, and a user interface 72. The first signal set 38 bears a cache marker 34 that directs the CPU to store it in a local storage. The second signal set 40 bears a recall marker 36 that uniquely identifies the first signal set 38 through the cache marker 34, and that determines a sequence in which the first and second signal sets are to be output. The CPU uses the recall marker and cache marker to sequence the first and second signal sets relative to one another in time that differs from the timed relation in which they were received. By storing the first signal set in a local storage, it need be broadcast or transmitted only once, eliminating the need to re-broadcast recurring commercial advertisements and conserving bandwidth.